KHVOSTOVA, V.V.

LEBEDEV, D.V. [translator]; MATVEYEVA, T.S. [translator]; LASKEVICH, Yu.I. [translator]; OSTRYAKOVA-VARSHAVER, V.P. [translator]; MHYOSTOVA, V.V. [translator]; BARANOV, P.A., redaktor; ASTAUROV, B.L., professor, Tedaktor; SYSINA, N.A., redaktor; IOVLEVA, N.A., tekhnicheskiy redaktor

[Polyploidy: collection of articles] Poloploidia; sbornik statei. Perevod D.V.Lebedeva i dr. Pod.red. i s predisl. P.A.Baranova i B.L. Astaurova. Moskva, Izd-vo inostr.lit-ry, 1956. 398 p. (MLRA 10:6)

1. Chlen-korrespondent Akademii nauk SSSR (for Baranova) (Polyploidy)

KHYOSTOYA. V.V., DELONE, N.L., SOROKINA, O.N., TRUKOV, V.L., TSELISHCHEV, S.P. CHAYKINA, K.V.

Development of soft wheat sendlings obtained from seeds irradiated with thermal neutrons [with summary in English]. Biofizika 3 no.4:459-465 '56 (NIRA 11:8)

l. Institut biologicheskoy fiziki AN SSSR, Moskva i Laboratoriya biofiziki Moskovskogo ordena Lenina sel'skokhozyaystvennoy akademii im. K.A. Timiryazeva, Moskva.

(PLANTS, EFFECT OF RADIATION ON)

(WHEAT)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7

USSR / Farm Animals. Cattle.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40425.

: Tinyakov, G. G., Khvostova, V. V. Author

: Not given : Histological Characteristics of the Udder of Inst Title

Cows at Different Stages of Pregnancy and

Lactation.

Orig Pub: Dokl. AN SSSR, 1956, 106, No 6, 1096-1098.

Abstract: When comparing the microscopic structure of the mammary glands of heifers and lactating cows at different stages of lactation, a considerable predominance of the connective tissue over the glandular one, and its gradual increase in the course of pregnancy, is noticed. In the lactating cows, the glandular tissue is considerably developed and it remains almost without change during pregnancy;

Card 1/2

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APPROVED FOR RELEASE: 06713/2000 CIA-RDP86-00513R000722510007-7"

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40425.

Abstract: it decreases somewhat only during a dry period. The index of the ratio of the connective tissue to the glandular one, in heifers, is always less than one unit. The follicles in the heifers are approximately one and a half times narrower, and the glandular epithelium is two times higher, than in the lactating cows.

Card 2/2

MANSUROVA, V.V.; SAKHAROV, V.V.; KHVOSTOVA, V.V.

Sensitivity of diploid and autotetraploid plants to gamma radiation [with summary in English]. Bot.zhur. 43 no.7:989-997 J1 158. (MIRA 11:9)

1. Institut biofiziki Akademii nauk SSSR, Moskva.
(Plants, Effect of gamma rays on) (Polyploidy)

KHVOSTOVA, V.V.: DMLONE, N.L.

Radiation sensitivity of the meristem of germules and rootlets in pea and barley embryos. TSitologiia 1 no.3:320-321 My-Je '59. (MIRA 12:10)

1. Laboratoriya radiatsionnoy genetiki Instituta biofiziki AN SSSR, Moskva.

(PLANTS, EFFECT OF RADIOACTIVITY ON)

KHVOSTOVA, V.V.: HNVZGODIHA, L.V.

Frequency of chromosome reorganizations in the tissues of radiosensitive and radioresistant pea plants. TSitologiia 1 no.4:403-407 Jl-Ag 159. (MIRA 12:10)

1. Laboratoriya radiatmionnoy ganetiki Instituta biofimiki AN SBSR, Moskva.
(CHROMOSOMUS) (RADIATION--PHYSIOLOGICAL MFFECT)
(PMAS)

SIDOROV, B.N.; KHYOSTOVA, V.V.

Factors influencing the genetic effect of ionizing radiations.

Itogi nauki: Biol. nauki no. 3:176-227 '60. (MIRA 13:10)

(RADIATION—PHYSIOLOGICAL EFFECT) (VARIATION (BIOLOGY))

DUBININ, N.P.; KHVOSTOVA, V.V.; DELONE, N.L.

Ionizing radiations and plant breading. Itogi nauki: Biol. nauki no. 3:292-323 '60. (MIRA 13:10) (PLANTS, EFFECT OF RADIATION ON) (PLANT BREEDING)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7

KHVOSTOVA, V.V.; VALEVA, S.A.

On a method for the use of ionizing radiation in plant breading.
Biofizika 5 no.1:81-84 160. (MIRA 13:6)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(PLANTS)
(RADIATION EFFECTS)

KUZIN, A.M.; ISAYNV, B.M.; KHVOSTOVA, V.V.; TOKARSKAYA, V.I.; BREGADZE, Yu.I.

Effectiveness of the biological action of C¹⁴ during its incorporation into living structures. Jokl.AN SSSR 134 no.4: 951-954 0 '60. (MIRA 13:9)

1. Institut biologicheskoy fiziki Akademii nauk SSSR. 2. Chlenkorrespondent AN SSSR (for Kuzin).

(CARBON--ISOTOPES)
(PLANTS, EFFECT OF RADIOACTIVITY ON)

DUBININ, Nikolay Petrovich; KHVOSTOVA: V.V., nauchnyy red.; SHIROKOV, S.I., nauchnyy red.; ANDREYENKO, Z.D., red.; MAZEL¹, Ye.I., tekhn. red.

[Problems in radiation genetics] Problemy radiatsionnoi genetiki.
Moskva, Gos. izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1961.
467 p. (MIRA 14:11)

1. Chlen-korrespondent AN SSSR (for Dubinin) .
(RADIATION—PHYSIOLOGICAL EFFECT) (GENETICS)

KHVOSTOVA, U.V.

33313 5/560/61/000/010/011/016 D536\D205

27 17.20

AUTHORS:

Glembotskiy, Yn. L., Prokof'evn-Bel'govskaya, A. A., Shamina, Z. B., Gol'dat. S. Yu., Knvostova, Y. Y., Valova, S. A., Eygen, N. S., and Nevsgodina, L. V.

TITLE:

Effect of cosmic flight factors on the heredity and development of actinomycetes and higher

plants

SOURCE:

Akademiya nauk SSSR. Iskusstvennyye sputniki Zemli. no. 10. Moscow, 1961, 72-81

TEXT: The second cosmic space-ship was utilized to study the combined genetic effect of cosmic flight on organisms. This article deals with the study of the following cultures: actino-article deals with the study of the

Card 1/4

4

3553 g/560/61/000/010/011/016 p29a/p302

Effect of cosmic. ...

etandards and experimental cultures were investigated according to: (1) vitality and (2) a microscopic characteristic of growth and development. The 2577 and 3594 atoms differ by the sizes of their nuclear element in the spore and by their sensitivity to ultra-violet rays (UV). It is also assumed that they differ in their reaction to ionizing radiation. All the 4 tested atoms were found to be sensitive to conditions of cosmic flight. The vitality (i.e., the number of spores which survived and developed colonies) of the radio-resistant act. erythrous 2577, as compared to the standards, increased 6 times; the no. 8594 decreased 12 times; the act. aureofaciens ACS-2201 (LSB-2201) dropped in vitality by about 75% on the average. In the roots of all 5 types of experimental socds, the percentage of chromosome changes was somewhat increased. However, only in the case of 2 types was this increase statistically valid. In 3 types of plants, in increase of mitosis was noted. In the case where the percentage of anaphases with chromosome changes was found

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33313 \$/560/61/000/010/011/016 D298/D302

Effect of cosmic...

to be high (about 5%), the tempe of mitosis fell. The cenditions of cosmic flight stimulated the growth intensity compared to the standards. The following microscopic morphology features of the experimental cultures confirm this fact: (a) development of a more basiphyllic and powerful gif, (b) growth of a thicker intertwining of bycelia, (c) lengthy growth of well-developed gifs. Data on the survival of the 8594 and 2577 stems are not completely valid since the concentrations of the spore suspensions of the control and experimental cultures were determined visually from the suspension turbidity. The morphology changes in the colonies were investigated on the act. crythreus 8594 and act. aureofaciens LSB-2201. Obtained data show that the morphology changes in the actinomyces, both in the experiment (cosmic flight) and control, lie within the same limits. The cytology analysis of agricultural plant seeds affected by cosmic flight was conducted by studying the chromosome impairment in the ana- and telophases of the first mitosis. Obtained results

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3/1: s/560/61/000/010/011/016 D298/D302

Effect of cosmic...

showed that in all the investigated plants there is a certain increase of cells with chromosome changes, and in only 2--winter wheat and Spartanet's peas-is this increase statistically valid. There are 4 figures, 2 tables and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: S. B. Pipkin, W. N. Sullivan, Aerospace Med., 30, 585, 1959.

May 3, 1961 SUBMITTED:

Card 4/4

CIA-RDP86-00513R000722510007-7" APPROVED FOR RELEASE: 06/13/2000

S/205/61/001/004/027/032 D298/D303

AUTHORS:

Khvostova, V. V. and Nevzgodina, L. V.

TITLE:

A cytological analysis of the causes of resistance to

in plants

PERIODICAL:

Radiobiologiya, v. 1, no. 4, 1961, 611-618

TEXT: In previous works by S. A. Valeva (Ref. 1s Biofizika, 5, 244, 1960) and by V. V. Khvostova and L. V. Nevzgodina (Ref. 2: Tsitologiya, 1, 403, 1959) it was found that the greater sensitivity of the bud to radiation was caused by the fact that more chromosome reconstructions occur in their cells which leads to death of some of the cells and to inhibition of growth. The authors set out in the present work to clarify which of the processes of chromosome reconstruction formation proceeds differently in the cells of plants resistant to radiation and plants sensitive to radiation. For a comparative study, the air-dried seeds (about 8% moisture content) of fodder peas and Kapital variety table pea

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S/205/61/001/004/027/032 D298/D303

A cytological analysis...

were irradiated with gamma-radiation from a Co source at an intensity of 450 r/min. and with fast neutrons. In the latter case the pea seeds were irradiated in the horizontal channel of an APT (IRT) reactor in a mixed stream of fast neutrons and gamma-rays at a distance of 240 cm from the active zone. The total dose received by the seeds in 5 hours of irradiation in the channel was 500 r from fast neutrons and 270 r from the gamma-rays. It was found that the seeds of the fodder pea were more resistant to gamma-radiation than were the Kapital pea seeds, judged on the criterion of "damageability"-the percentage of anaphases with chromosome reconstructions in the first mitoses of the radicles and the mean number of reconstructions per anaphase. No difference in the sensitivity to fast neutron activity was noted. Storage of the fodder pea, irradiated with gemma-radiation for 1 and 6 months and also with fractional irradiation at intervals of 1 month, showed no increase in the number of chromosome reconstructions. Furthermore, no change in the number of chromosome reconstructions was noted in seeds irradiated with neutrons. Storage of the Kapital pea seeds, irradiated with gamma-

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S/205/61/001/004/027/032 D298/D303

A cytological analysis ...

radiation for 1 and 6 months and also with fractional irradiation, showed that the number of chromosome reconstructions increased markedly. Storage of seeds irradiated with neutrons gave a much lower rise in the number of chromosome reconstructions. The OHE of neutrons compared with gammaradiation was 40 times more with the fodder pea and 10 - 15 times greater with the Kapital variety, judging from the percentage of anaphases with haps "obshchaya biologicheskaya effektivnost' (general biological effectiveness)"]. A study of the types of reconstructions showed that, after neutron irradiation of the seeds, chromatide bridges comprised about 10% of all the bridges, whereas after gamma-irradiation they comprised about 30%. Storage of the seeds irradiated with neutrons gave no change in the number of reconstructions, but the percentage of chromatide bridges increased. With storage of the Kapital seeds irradiated with gamma-radiation, the percentage of chromatide bridges almost doubled. U. N. Bregadze helped with irradiation of the seeds in the reactor and in calculating the doses of fast neutrons. There are 3 tables and 13 references: 6 Soviet-bloc and 7 non-Soviet-bloc. The 4

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7

A cytological analysis ...

S/205/61/001/004/027/032 D298/D303

most recent references to the English-language publications read as follows: 0. Gelin, L. Ehrenberg, S. Blixt, Agric. hort. genet., 16, 1/2, 78, 1958; A. V. Beatty, J. W. Beatty, Genetics, 45, 3, 331, 1960; J. D. Adams, R. A. Nylan, Rad. Res., 8, 2, 111, 1958; G. J. Neary, S. M. Tonkinson, F. S. Williamson, Int. J. Rad. Biol., 1, 3, 201, 1959.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR (Institute of

Biophysics, AS USSR), Moscow

SUBMITTED: March 20, 1961

Card 4/4

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7

KHVOSTOVA, V.V.; KIKNADZE, I.I.; FILATOVA, I.T.

Nucleic acids in cells of the meristem of rootlets of pea varieties with varying radiosensitivity. TSitologiia 3 no. 2:183-188 Mr-Ap
161. (MIRA 14:4)

1. Laboratoriya radiatsionnoy genetiki Instituta biofiziki AN SSSR, Moskva i Laboratoriya obshchey tsitologii Instituta tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk. (NUCLEIC ACIDS) (PLANTS, EFFECT OF RADIOACTIVITY ON) (PEAS)

KHYOSTOVA, V.V.; PRAVEDNIKOVA, G.L.

Study of meiosis in constant 56-chromosome intermediate forms of Triticum-Agropyron hybrids. Dokl.AN SSSR 138 no.1:215-218 My-Je '61. (MIRA 14:4)

1. Institut biologicheskoy fiziki AN SSSR i Institut tsitologii i genetiki Sibirskogo todeleniya Akademii nauk SSSR. Predstavleno akademikom N.V.TSitsinym.

(RITICUM_AGROPYRON HYBRIDS)

(CHRCMCSOMES)

GLEMBOTSKIY, Ya.L.; FROKOF'YEVA-BEL'GOVSKAYA, A.A.; SHAMINA, Z.B.;
KHVOSTOVA, V.V.; VALEVA, S.A.; EYGES, N.S.; NEVZDOGINA, L.V.

Effect of space flight factors on the heredity and development in actinomycetes and higher plants. Probl.kosm.biol. 1:236-247 '62. (MIRA 15:12) (SPACE FLIGHT—PHYSIOLOGICAL EFFECT)

S/865/62/002/000/016/042 D405/D301

AUTHORS: Khvostova, V.V., Prokof yeva-Bel govskaya, A.A.

Sidorov, J.N. and Sokolov, N.N.

Effects of space flight conditions on seeds of higher plants and an actinomycetes TITLE:

SOURCE: Problemy kosmicheskoy biologii. v. 2. Ed. by N. Sisakyam and V. Yazdovskiy. Moscow, Izd-vo AN SSSR, 1962,

153-163

The seeds of plants and the spores of actinomycetes TEXT: were selected from the viewpoint of their chromosome stage and owing to their practical value in prolonged space flights. The experiment al method is described. In the case of seeds, the genetic effect was estimated by the number of cells with chromosome abberations in the rootlets. It was found that the percentage of cells with chromosome abberations in the first mitoses of the rootlets of the wheat NNC-186 (PPG-186) increased after flight on the space ships Vostok and Vostok-2. The same effect was observed in pea seeds.

Card 1/2

5/747/62/000/000/016/025 D296/D307

Kuzin, A. M., Isayev, B. M., Khvostova, V. V., Tokarskaya, AUTHORS:

V. I. and Bregadze, Yu. I.

The biological effect of C14 incorporated into living CITLE:

Radiatsionnaya genetika; sbornik rabot. Otd. biol. nauk SOURCE:

AN SSSR. Moscow, Izd-vo AN SSSR, 1962, 267-273

TEXT: After the performance of nuclear tests the content of radioactive carbon in the atmosphere increased between 1955 and 1958 at of amount in the atmosphere increased between 1977 and 1970 at 5% amounts, when assessing the possible biological effects of these doses they are usually estimated by the radiosensitivity of living tissues exposed to the external source of radiation. These calculations fail, however, to take into consideration the special geometry of incorporation of C¹⁴ into radiosensitive structures such as chromosomes as well as the so-called transformation effect in DNA molecules ($C^{14} \rightarrow N^{14}$). These effects may lead to more frequent aberra-Cara 1/3

CIA-RDP86-00513R000722510007-7" APPROVED FOR RELEASE: 06/13/2000

S/747/62/000/000/016/025 D296/D307

The biological effect ...

tions than expected from calculations on the basis of the dose to which the cells are exposed. The authors compared the biological effect of ${\rm C}^{14}$ incorporated into plant seedlings, with the effect of exposure to external gamma radiation emitted by ${\rm Co}^{60}$. Normally growing 10-day old plants were placed into a photosynthesis chamber containing ${\rm C}^{14}$ 0₂ (total activity 100 μ C, volume of chamber 22.5 dm³); radioactivity of the inner layer of the plants was estimated on scintillation counters and the tissues were investigated cytologically, counting the proportion of micronuclei and the mitotic index. The percentage of cells with chromosome aberrations increased from 0.16% in the control plants to 0.26% in the experimental plants. Plant cells exposed to more than double the dose of radiation (0060) showed a slight increase in the number of aberrations but calculation revealed that the mutagenic effect of incorporated ${\rm C}^{14}$ was ten times higher than that of an equal dose of external irradiation.

This fact shows that the transformation effect ${\rm C}^{14} \to {\rm N}^{14}$ as well as ${\rm Cand} \ 2/5$

The biological effect ... 8/747/62/000/000/016/025 D296/D307

the special geometry of the incorporation of c^{14} are factors to be considered further. There is 1 figure and 1 table.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moskva (Institute of Biological Physics, AS USSR, Moscow)

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S/747/62/000/000/025/025 D243/D308

AUTHORS: Khvostova, V. V. and Nevzgodina, L. V.

TITLE: The causes of the radiostability in plants

SOURCE: Radiatsionnaya genetika; sbornik rabot. Otd. biol. nauk AN SSSR. Moscow, Izd-yo AN SSSR, 1962, 358-366

TEXT: The present work was aimed at determining at which stage the formation of chromosome reorganization proceeds differently in radiosensitive and radioinsensitive plant cells. Air-dried seeds of maple and Capital peas were irradiated with total doses, over 5 hours, of 270 r of Co⁶⁰ f rays at 450 r/min, and 500 r of fast neutrons. Haple pea seeds were found to be more resistant to f rays, while both types were equally susceptible to fast neutrons. The seed reaction, as measured by the percent of anaphase cells with chromosomal reorganization, was more uniform after neutron than after fradiation, especially in Capital peas. Two series of experiments, with 7500 r and 5000 r of f radiation respectively, were then carried out to study the effect of chromosome reorganization, in factor of 1/2

SYUY CHEN -MAN ! [Hau Ch'en-man]; KHVOSTOVA, V.V.

Effect of fast neutrons on the development of winter wheat PPG-186. Radiobiologiia 2 no.61926-930 '62 (MIRA 16:11)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

*

KHVOSTOVA V. V., and VALEVA, S. A.,

"Cytogenetic Analysis of the Sensitivity of Plants to Different Kinds of Radiation."

report submitted for the 11th Intl. Congress of Genetics, The Hague, Netherlands, 2-10 Sep 63

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7

KHVOSTOVA, V. V., MOZHAYEVA, V. S., and EYGES, N. S.,

"Effectiveness and Specificity of Ionizing Radiations and Some Chemical Substances in Inducing Mutations in Winter Wheat."

report submitted for the 11th Intl. Congress of Genetics, The Hague, Netherlands, 2-10 Sep 63

KHVOSTOVA, V.V.; YACHEVSKAYA, G.L.; LUNKINA, A.N.

Analysis of the genetic structure of constant 56-chromosomal triticum-agropyron hybrids. Izv. SO AN SSSR no.4. Ser. biol-med. nauk no.1:76-78'63. (MIKA 16:8)

l. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR i Nauchno-issledovatel'skiy institut sel'skogo khozyaystva tsentral'nykh rayonov nechernozemnoy polosy.

L 19h53-63 EWT(1)/FCC(w)/FS(v)-2/BDS/ES(a)/ES(j)/ES(c)/ES(k)/ES(t)-2/EEO-2/ES(v) AFFTC/AMD/AFMDC/ESD-3 Pb-h/Pi-h/Po-h/Pq-h/Pe-h TT/A/RD/DD ACCESSION NR: AP3007352 S/0293/63/001/001/0186/0191

AUTHOR: Khvostova, V. V.; Gostimskiy, S. A.; Mozhayeva, V. S.; Nebzgodina, L. V.

TITLE: Further study of the influence of conditions of space flight 2 on chromosomes of primary roots of pea and wheat sprouts

SOURCE: Kosmicheskiye issledovaniya, v. 1, no. 1, 1963, 186-191

TOPIC TAGS: space flight effect, chromosome reconstruction, 660-Mev proton, cobalt 60 Gamma ray, Vostok 1, Vostok 2, Vostok 3, Vostok 4

ABSTRACT: Dry seeds of winter wheat (PPG-186) and peas ("Kapital" variety) were exposed to effects of space flight on the four Vostok spaceships. A cytological analysis of the sprout roots of seeds indicated that exposure to space flight resulted in a small but statistically significant increase in chromosome reconstructions. The percentage of reconstructions does not depend on the duration of flight. More reconstructions were found in seeds flown in Vostok-2 than in seeds flown in Vostok-3, in which there was a distinct,

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L 19453-63 ACCESSION NR: AP3007352

but not statistically significant increase. There was no increase in the number of reconstructions in seeds flown in Vostok-4. Control seeds were subjected to radiation and vibration in an attempt to identify which aspects of space flight were responsible for the increase. Exposure to vibration (70 cps; amplitude, 0.4 mm) for 4 hr did not increase the number of reconstructions. Exposure of seeds to 660-MeV protons (dose 1940 rad; rate, 43/min) was no more effective as far as the number of reconstructions is concerned than exposure to Co^{60} y-rays (dose, 1940 rad; rate, 289/min). Orig. art.

ASSOCIATION: none

SUBMITTED: 24Apr63

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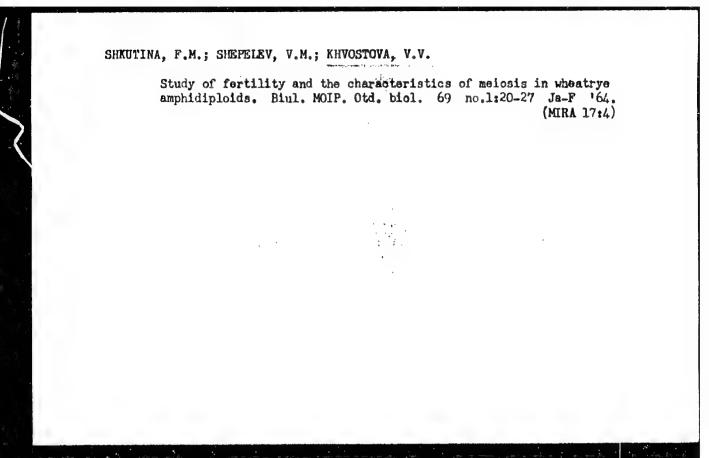
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Card 2/2



DUBININ, N.P., red.; KHVOSTOVA, V.V., kand. blol. nauk, red.; FCHELINTSEVA, G.M., red.

[Radiation and plant breeding] Radiatsiia i selektsiia rastenii; sbornik statei. Moskva, Atomizdat, 1965. 205 p. (MIRA 18:12)

KHVCSTOTA, V.V.; ELISHUMI, K.A.

Partial removal of injurious radiation effect in barley seeds. Radiobiologiia 5 no.1:136-139 165. (EIRA 18:3)

1. Institut biologicheskoy fiziki AM SSSE, Moskva.

ACCESSION FRANCIO 157715

UR/0205/65/005/003/0440/0445 577/24:58:639

AUTHOR: Kuvostova V. V.; Hosbeyeva V. S

TITIE! Butagenit effect of games tays and fast neutrons on winter wheat seeds

BOURCE: Radiobiologiya, v. 5, no. 5, 1965, 440 445

MOPIC TAGS: games ray, fast neutron, seed, chroscoonal abervation, nutation, mitogla, wheat

ABSTRACT: Analysis of the first generation of winter wheat plants (PPG-186 variety reysaled that after the seeds were invadiated with fast neutrons, the shoots overwise much more poorly than they did when the seeds were irradiated with general rays. General rays in doses of up to 500 to bronuced an insignificant number of chromosomal abertations in the first mituses of the total The KBE of I rad of fast neutrons was over 40 as compared with about 10 for mitusels). A comparison of the maximum mutagenic effect of fast neutrons and general rays showed that neutrons produced approximately 5 times as many mitations. So the actions resulted in useful mitations. The general rays gave ruse to large-seried winter wheat forms that proved to

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LAIGH-6 ENG(5)/ENT(a)

AUTHORS: Dubinin N. P. (Gorresponding member AN BASEN); Khrostova, V.V.(Gandidate of minoglosal sciences)

C. S.

FITAN: Atomic energy and selection

BOUNDS: Priryds, no. 3, 1965, 25-31

TOPIC TAGES: mullery rediction muller particle, actation, agriculture/ Spectoid 72 winest, PPC 196 wheat, Radiola 117 bean, Radiola 117 bean, United Grussia soys bean, Universal style bean, Euron polato; Sedow polato, Rannysya Rosa polato

AESTRACT: The effect of stoude energy on the cellular heredity of plants is discussed; it is proposed to apply thes achievements in this filed to the further devalopment of plant selection (extended to its present state by I. V. Highurin and N. L. (wolldy). Contaction rediction has been applied to the growth of commercial functions assural sold; thus increasing the production of antibiotics. Her rediction sources, isotopes Colo and Cally, passad-rays, and fast neutrons were used for the irradiation of seeds and outlings. Agricultural laboratories directed Card 1/3

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the radioactive mutation research borard goabinations of physical strength with resistance to infections and climatic basards; also, new fruit distribution along the branch (convenient for mechanised parvesting) and improved nutritive properties of new preceds combined with an impreased crop were achieved. A wheat mutant, kreptoid-72 (obtained by gamma-ray treatment), gave a crop increase of his in a cold, rainy climate. Heny types of soft wheat crossed with the initial PPG-186 wheat produced a variety more resistant to climatic basards but still preserving the high qualities of grain typical for soft wheat. An improved cotton mutant 100-F was obtained at the <u>Unbek Academy of Sciences by gamma-ray 0.000 (200r)</u> irradiation of the plant in the budding stage. The Institute of Cytology and Genetics of the Siberian Branch of the Academy of Sciences applied this technique to the improvement of potate types koron, Sedov, and Rannynya Rosa; their tubers were treated by gamma-(1500-3000r) and x-rays (2000-8000r), and the grafts by x-rays in doses of 100, 600, 800 and 1000r. The amount of altered plants produced was correspondingly: 2.46, 7.6 and 0.63%. Immeras potato seeds treated with gamma-rays of 5000 fast neutrons, and chemical mutation agents showed promising results. The first radiation plants were obtained at the Matahtari (Georgia) Apricultural Station by the selection specialist 5, 0, Teodorada. Crops of beans Radiola-1175 and Radiola-1177 arcessed the standards by 60-905, and the soys beans

Card 2/3

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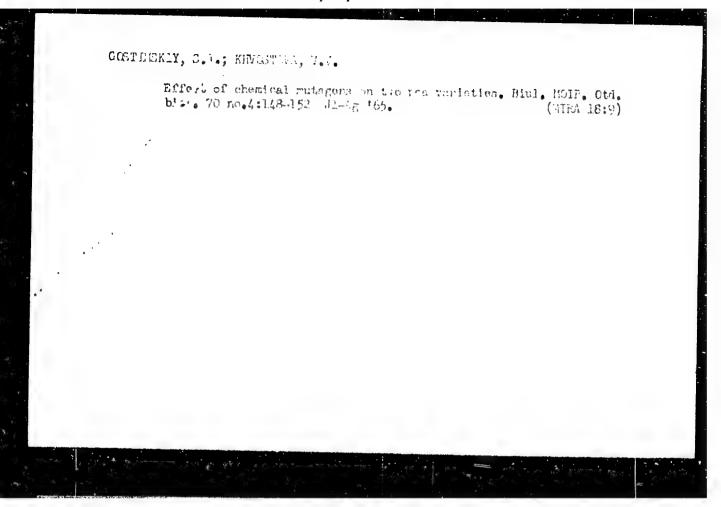
Universal and Chick Grusii showed increased production and edaptability to climatic differences. The combination at Point Salection with radiation has produced new forms highly resistant to the transfer of infections from the wild forms. Although the autum's obtained require additional selection before achievement of the final results; shey show botter pharacteristics than those of the intrasortal hypridisation. Orig. art, has a protographs.

ASSOCIATION: Laboratory radiationary genetic; Institute biologichestoy fisics AN SSSR foscov (Laboratory of Saliktion Genetics, Institute of Riological Physics, AN SSSR)

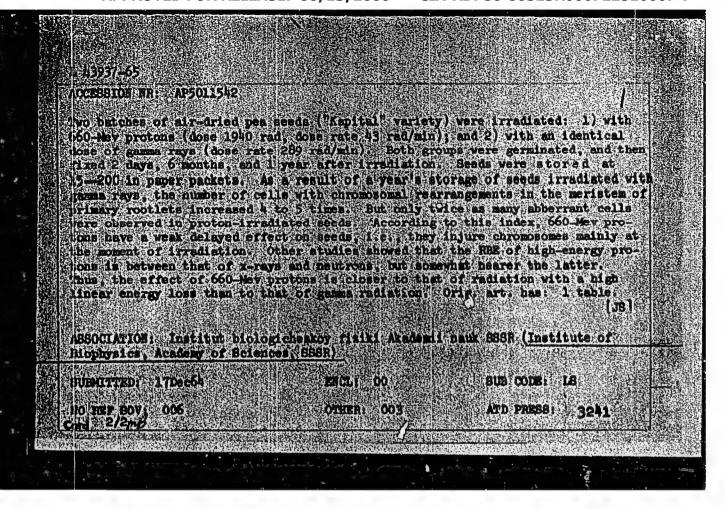
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TOPIC AAGS: delayed radiation	effect, chromosomal rearrangement, gamma rays, pea
	e (3-pear) of irradiated pea seeds on the number of the control of the seeds was in-
vestigated. Study of the delay	ed effects of radiation, i.e., the increase of ra-
	helps clarity the vays in which cells are influenced providing spudies showed less delayed effects in
seeds irradiated with fast next	roug than in those subjected to games and x-ray
	Unable Purrous undure Curomosomes durectly during a service activo a vironi activo a vironi activo a vironi activo a vironi activo acti
	nce of long-lived free radicals in the latter case)
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44.

GOSTIMSKIY, S.A.; KHVCSTOVA, V.V.

Change in the rate of chromosome reorganization induced by ethylenimine in the first mitosis of pea rootlets. Dokl.

AN SSSR 162 no.1:197-200 My 165. (MIRA 18:5)

1. Institut biologicheskoy fiziki AN SSSR. Submitted June 25, 1964.

EL'SHUNI, K.A.: KHYOSTOVA, V.V.; STOLETOV, V.N.

Fartial removal of damaging irradiation effect and the mutation process in gramineous plants. Genetika no.3:70-74 S 465.

(MIRA 18:12)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. Submitted March 30, 1965.

NAMESTNIKOV, V.S. (Novosibirsk); KHVOSTUNKOV, A.A. (Novosibirsk)

Creep in duralumin under both constant and variable loads.

PMTF no.4:90-95 N-D 16C. (MIRA 14:7)

(Creep of metals)

(Duralumin)

ACC NR: AP7005133

SOURCE CODE: UR/0126/66/022/004/0591/0597

AUTHOR: Lerinman, R. M.; Khvostyntsev, K. I.; Nikanorov, M. A.; Anitov, I. S.; Ksenofontova, T. B.

ORG: Institute of Metal Physics, AN SSSR (Institut fiziki metallov AN SSSR)

TITLE: Combined effect of plastic deformation and aging on the structure and properties of

SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 4, 1966, 591-597

TOPIC TAGS: titanium alloy, metal aging, plastic deformation, phase composition, metal recrystallization / TS6 titanium alloy

ABSTRACT: The effect of plastic deformation (rolling with degrees of deformation amounting to 3, 10 and 40% and aging(at 480°C for 2, 10, 30 and 100 hr) on the fine structure (the kinetics of decomposition of the β -phase, dispersity and the distribution of the α -phase) of TS6 titanium alloy (3.22% Al, 3.42% Mo, 7.80% V, 10.80% Cr, Q.18% Fe, 0.03% C, 0.01% Si, 0.07% O2, 0.011% N2, with Ti as the remainder) was investigated by means regular and electron microscopy and measurements of hardness and tensile strength. It is shown that plastic deformation accelerates the decomposition of the metastable β -phase and results in a more fine-

Cord 1/2

UDC: 548.526

ACC NR: AP7005133

-grameu and uniform structure devoid of undecomposed boundary-layer and intragranular re-CIA-RDP86-00513R000722510007-7 sidues of the β-phase, which, together with the high degree of dispersity of the particles of the segregating α -phase, leads to a general improvement in mechanical properties. Quenching the alloy from 800°C following 3% deformation results in polygonization; following 10% deformation, in partial recrystallization; and following 40% deformation, in total recrystallization of the structure. In this last case, since the decomposition of the recrystallized β-phase occurs slowly, a marked change in the alloy's hardness is observed only after 100 br of aging at 480°C. This may be a cause of the heterogeneity of the alloy's properties following its hardening by heat treatment. The highest hardening rates were observed for the specimens subjected to 3 and 10% deformation prior to their quenching, which indicates that an incompletely recrystallized structure is favorable to the increase in mechanical strength following aging. Orig. art. has: 7 figures, 3 tables.

SUB CODE: 20/ SURM DATE: 05Feb66/ ORIG REF: 001/ OTH REF: 001

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"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722510007-7

ACC NR. AP7001528

SOURCE CODE: UR/0193/66/000/012/0005/0006

AUTHOR: Khvotostukhin, L. A.; Pleshivtsev, N. V.; Bibayev. V. N.

ORG: none

TITLE: Machining of 1Kh18N2AG5 stainless steel

SOURCE: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 12, 1966, 5-6

TOPIC TAGS: stainless steel, high strength steel, chromium, nickel, manganese steel, nitrogen containing steel, steel mechanical property, steel machining/lKh18N2AG5

ABSTRACT: The Moscow Institute of Aviation Technology has developed low-nickel high-strength stainless 1Kh18N2AG5(EP-26) steel as a substitute for 1Kh18N1OT[AISI321] steel. The 1Kh18N2AG5 steel, in which a great part of the nickel is replaced by manganese and nitrogen, belongs to the austenitic-ferritic class and contains more than 70% austenite. The steel has high mechanical properties, a tensile strength of 117 kg/mm², a yield strength of 50 kg/mm², an elongation of 30%, an HB hardness of 240 kg/mm², and quite satisfactory machinability. It is recommended for aircraft engines and other industrial uses. Sintered carbide-tipped tools are recommended for machining the steel. Sintered T15K6 and VK8 tips are recommended for rough machining and 115K6 tips for semifinished and finished machining. A satisfactory surface finish is produced at cutting speeds above 40 m/min. Subsequent burnishing with a diamond

Cord 1/2

UDC: 621.9: 669.14.018.8

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7"
tool greatly improves the surface finish and increases the microhardness of the surface layer. [MS]

SUB CODE: 11, 13/ SUBM DATE: none/ ATD PRESS: 5110

On the agricultural produce market. Vnesh.torg. 41 no.5:39-48 '61. (Produce trade)

PUGACHEVSKIY, V.P., KHVOVNITSKAYA, M.A.

Protective containers for working with radioactive substances. Vest. rent. i rad. 35 no. 6:80 N-D 160. (MIRA 14:2)

1. Iz Kiyevskogo instituta gigiyeny truda i profzabolevaniy (direktor - dotsent L.I. Medved)).

(RADIOACTIVE SUBSTANCES—SAFETY MEASURES)

(RADIATION PROTECTION)

KHVOYNITSKAYA, M.A.; PUGACHEVSKIY, V.P.

Hygienic evaluation of labor conditions during the use of radioactive isotopes in metallurgy. Vrach. delo no.8:93-94 Ag '60. (MIRA 13:9)

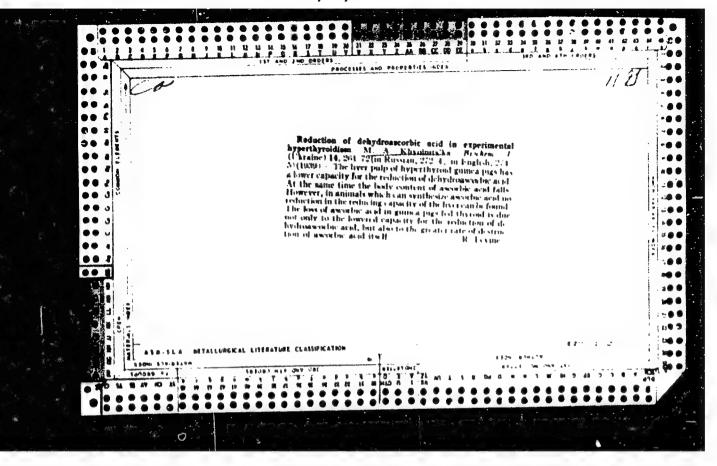
1. Radiologicheskaya laboratoriya Kiyevskogo instituta gigiyeny truda i professional'nykh zabolevaniy.
(RADIOACTIVITY_SAFETY MEASURES)

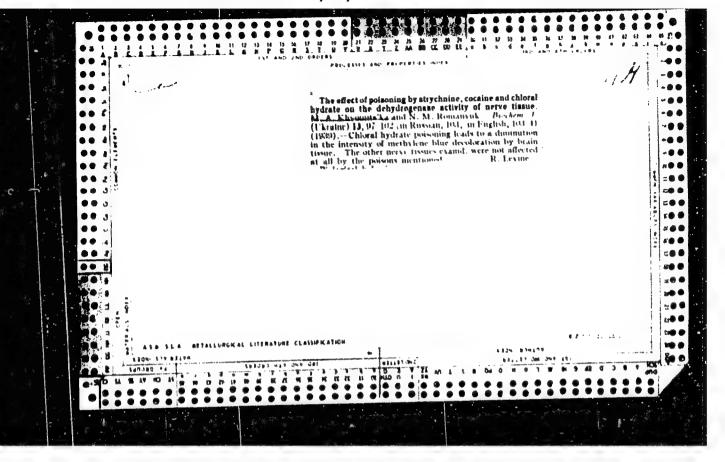
(ISOTOPES-INDUSTRIAL APPLICATIONS)

ALEKSEYEV, A.F.; BORISENKO, A.P.; GLIKSON, V.I.; GROMOVA, N.F.; KRASOVSKAYA, A.I.; HOVIKOVA, N.N.; OVCHAROVA, A.I.; KHVOYHIK, P.I.; CHURAKOV, V.P.; SHASTITKO, V.M.; GEORGIYEV, Ye.S., red.; SHIL DKRUT, V.A., red.; LEVCHUK, K.V., red.; LEKANOVA, I.S., tekhn.red.

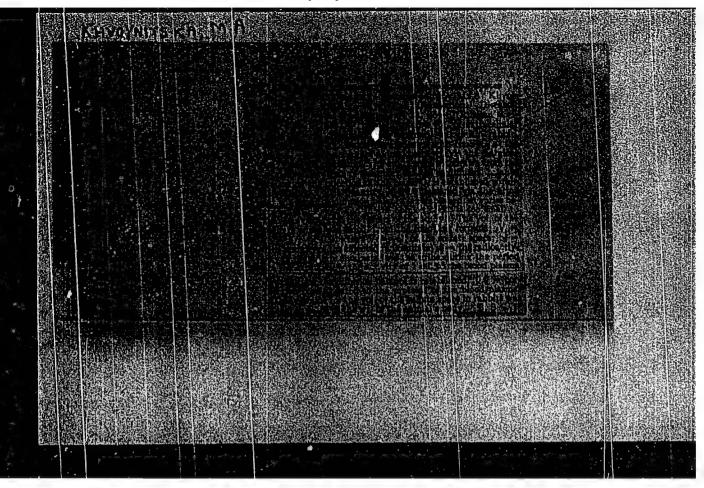
[Prices on the world capitalistic market; a handbook] TSeny mirovogo kapitalisticheskogo rynka; spravochnik. Moskva, Vneshtorgizdat, 1958. 391 p. (MIRA 12:7)

1. Moscow. Nauchno-issledovatel'skiy kon"yunkturnyy institut.
(Prices)





"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7



KHVOYNITSKAYA, M.A.

Water distribution in the body following exposure to high environmental temperature. Biul. & sp. biol. med. 47 no.5:53-56 My '59 (MIRA 12:7)

1. Iz Instituta gigiyeny truda i profzabolevaniy (dir. - dotsent L.I. Možved'), Kiyev. Predstavlena deystvitel'nym chlenom AMN SSSR S.Ye. Severinym.

(HEAT, eff. on water distribution (Rus)) (WATER, metab. eff. of heat distribution (Rus))

KHVOYHITSKAYA, H.A.

Changes in water-salt metabolism in radiation sickness induced in rabbits by radiophosphorus. Hed.rad, 4 no.7:88-89 J1 159.

(MIRA 12:9)

1. Iz Kiyevskogo instituta gigiyeny truda i profzabolevaniy.
(RADIATION INJURY exper.)
(PHOSPHORUS radioactive)
(BODY FLUIDS)

KHYOYNITSKAYA, M.A. [Khvoynyts 'ka, M.A.]

Method for simultaneous determination of the volume of extracellular "sulfate" space and the volume of circulating blood in an intact organism by the use of radioactive sulfur and phosphorus. Ukr.bio-khim.shur. 31 no.5:759-764 *59. (MIRA 13:4)

1. Institute of Labor Hygiene and Occupational Diseases, Kiev. (BODY FLUIDS) (SULFUR-ISOTOPES) (PHOSPHORUS-ISOTOPES)

KHVOYNITSKAYA, M.A.; PUGACHEVSKIY, V.E.

Hygienic requirements in work with continuously radioactive luminous paint. Vrach. delo no.12:126-129 D '61. (MFA 15:1)

1. Kiyevskiy nauchno-issledovatel'skiy institut gigiyeny truda i profzabolevaniy.
(LUMINOUS PAINT) (RADIOACTIVE SUBSTANCES__TOXICOLOGY)

T. P. C. L. C.

Agraeation Bl EAFOLOSKE

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SCHREE, Radiobiologiya, v. 5, no. 2, 1965, Nic-Ni

TOPIO PAGE | sentent | mouse | Doopmorus-32) stogle dose | Cracillons dose | Cracy SHOULD WINDING

ABSTRACT: The first of two experimental groups of white wise weighing 150/15 g received a single suboutaneous injection of P32 () microcuries), and the second group received the same dose daily for 1/2 yrs to determine P32 effective balling allocations and activities at regular intervals and sections of the second sections are required at regular intervals and sections determine were miled at regular intervals and sections determine were measured by direct requirementally. The effective half life for a single P2 dose was found to be 5.5/1 days and on this basis calculations for the daily administered P2 dise were used. However, the calculated applications for the daily administered p32 dise were used. However, the calculated application for the daily administered p32 dise were used. However, the calculated application for the daily administered p32 dise were used. However, the calculated application for the daily administered p32 dise were used. However, the calculated application for the daily administered p32 dise were used. However, the calculated application for the daily administered p32 dise were used. However, the calculated application for the daily administered p32 dise were used. However, the calculated application for the daily administered p32 dise were used.

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BABENYSHEV, V.M.; KHVOYNITSKIY, V.I.

Automatic device for rate-measuring potentiometric and coulometric titration. Zav.lab. 26 no.1:113-114 160. (MIRA 13:5)

1. Kuybyshevskiy industrial'nyy institut. (Titration)

KHVOYNOVSKIY, A.

USSR/Medicine, Veterinary - Infectious Diseases

Mar 52

"Ring Test for Diagnosing Brucellosis of Cows (Translated into Russian from 'Medycyna Veterinaryina,' No 6, 1951)" S. Runge, T. Lozinskiy, A. Khvoynovskiy, T. Dzyubek

"Veterinariya" Vol XXIX, No 3, pp 55, 56

Describes in detail the technique of this test, which is carried out on lactating cows.

216136

ENVILLE, A. M.

Khvol', A. A. "Rickets in the Jar and posture period," frudy VI Valsoyuz. stray's det. vracher, postyrashch. pasyati prof. Filatova, Moscou, 1940, p. 220-23

SO: U-3764, 10 April 1953, (Estopis Churnal Ingkh Stater, T. 3, 1/40)

KHVUL! A.K.

Pulmonary function in experimental rickets. Pediatriia 39 no.6: 10-15 N-D 156. (NLRA 10:2)

1. Iz patomorfologicheskoy laboratorii (zav. - dotsent N.A. Maksimovich) Ukrainskogo nauchno-issledovatel'skogo instituta olkhreny materinstva i detstva (dir. - zasluzhennyy vrach USSR M.D.Burova)

(RICKETS, experimental, lungs in (Rus)) (LUNGS, in various diseases, exper. rickets (Rus))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7"

.bs Jour: Ref Thur-Thol., No 12, 1958, 92944.

Int or : Envul', Jake, Vendt, V.P.

: /S Ukrainsca SSR. 1.130

: Influence of the Synthetic Complex of Whermin L2 and 11.61.0

Projects on the Course of Rickets in Children.

Orac Pub: V sb.: Viterainy. 3. Liyev, AM USSR, 1958, 156-173.

Abstract: No abstract.

: 1/1 Card

KHVUL', A. M.; GUSOVSKIY, Ya. M.; VENDT, V. P.

Development of hypervitaminosis D after administration of synthetic vitamin D preparations. Pediatrila no.11:34-39 '61.

(MIRA 14:12)

1. Iz Ykrainskogo nauchno-issledovatel skogo instituta okhrany materinstva i detstva imeni Geroya Sovetskogo Soyuza prof. P. M. Buyko (dir. kandidat meditsinskikh nauk A. G. Pap)

(VITAMINS_D) (HYPERVITAMINOSIS)

SVYATKINA, Klavdiya Andreyevna, prof.; KHVUL', Anna Markovna, doktor med. nauk; RASCOLOVA, Mariya Makreyevna, kand. mod. nauk; POKOMAKEVA, P.A., prof. red.; DETILOVA, Ye.P., red.

[Rickets] Rakhit. Moskvo, Meditsina, 1964. 221 p. (MIRA 17:10)

KHVUL', G.M. [Khvul', H.M.]; GUSOVSKIY, Ya.M. [Husovs'kyi, IA.M]; VENDT, V.P.

Influence of large doses of various preparations of vitamin D on the rise of hypervitaminosis under experimental conditions. Ped., akush. i gin. 22 no.4:30-33 *60. (MIRA 14*5)

1. Ukrains'kiy naukovo-goslidniy institut OKhMD im. Geroya Radyans'-kogo Soyuzu prof. P.M.Buyka (direktor - zasluzh.likar URSR M.D. Burova) ta Institut biokhimii AN URSR (direktor - akad.O.V.Palladin).

(HYPERVITAMINOSIS) (VITAMINS--D)

KHVUL', R.M.; PECHUK, L.M.; FRIZMAN. M.O.

Antibacterial therapy of cavernous forms of pulmonary tuberculosis in children and adolescents. Ped., akush. 1 gin. 20 no.6:5-8 '58.

l. Detskiy tuberkuleznyy sanatoriy im. M. Gor'kogo (konsul'tant - kand.med.nauk L.M. Pechuk), Kiyev, Pushcha-Voditsa.

(TUBERCULOSIS)

KLEBANOV, M.A., prof., ABERNMAN, A.A., KSHANOVSKIY, S.A., PRZHEVALISKAYA, L.A., KHVULI, R.M.

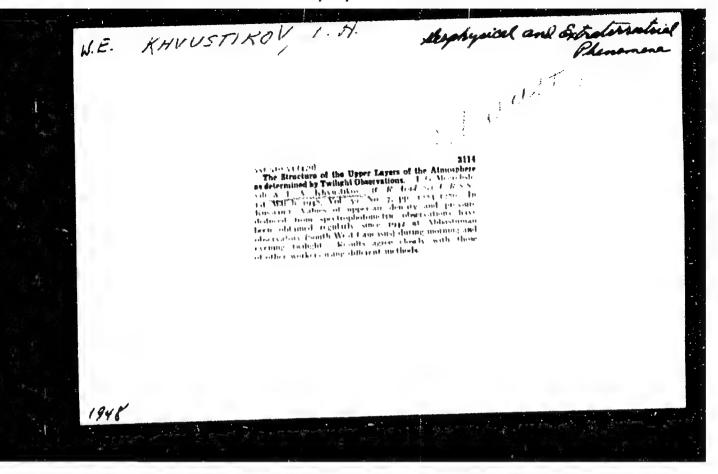
Causes of failure and outcome of prolonged antibacterial therapy of cavernous pulmonery tuberculosis [with summary in French].

Probl.tub. 36 no.6:16-28 \$58 (MIRA 11:10)

1. Iz Ukrainskogo instituta tuberkuleza imeni F.G. Yanovskogo (dir. dots. A.S. Mamolat).

(TUBERCULOSIS, PULOMONARY, ther.

chemother. in cavitation, causes of failure (Rus)))



BERMAN, G.N. [author]; KHVYL', G.L. (g. Smela) [reviewer].

Shortcomings, leading to idealism in metaphysics ("Number and its theory." G.N. Berman. Reviewed by G.L.Khvyl".) Mat. v shkole no.5:76-78 S-0 '53. (NLRA 6:9)

(Numbers, Theory of) (Berman, Georgii Nikolaevich, d. 1949)

KHVYLYA, D. S. (and others)

Plowing

Work indicators of disk colters on black-earth and turfy-podzolic soils. Fochvovedenie, No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Undlassified.

KHVYLYA, K. S.

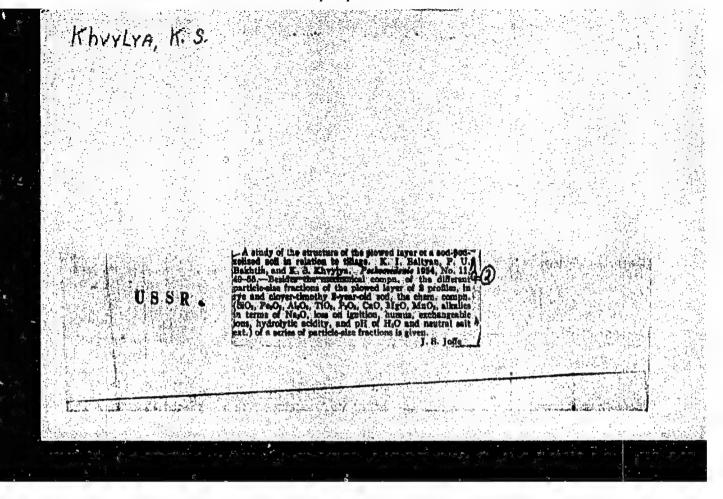
Soils - Analysis

Improvement of the Fadeyev-Vil'yams apparatus for determining firmness of soil structure. Pochvovedenie No. 7, 1952

Monthly List of Russian Accessions. Library of Congress. September 1952. UNCLASSIFIED.

- 1. KHVYLYA, K. S.
- 2. USSR (600)
- 4. Plowing
- 7. Problem of the aim in plowing. Pochvovedenie No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April ____1953, Uncl.



- 1. KHYAKIN YA.B.
- 2. US R (600)
- 4. Sheep-Crimea
- 7. Growth of Tsugayskiy sheep in the Crimea, Sots.zhiv. 15, no. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, unclass.

KHYAMYALYAYNEN, Khel'vi [Hamelainen, Helvi], finskaya pisatel'nitsa

Two solemn words, peace and friendship. Sov. profsoiuzy 18 no.20:39-40 0 162. (MTRA 15:10) (Finland---Labor and laboring classes) (Peace)

USPENSKIY, V.A.; RADCHENKO, O.A.; GLEBOVSKAYA, Ye.A.; SHISHKOVA, A.P.;
MEL'TSANSKAYA, T.N.; INDENBOM, F.B.; Prinimali uchastiye:
KOLOTOVA, L.F., khimik; CHAGINA, T.P., tekhnik; EASKINA, T.B.,
laborant; VIKULINA, M.N., laborant; POLOVNIKOVA, J.A., fizik;
PETROV, A.K., tekhnik; PONOMAREV, B.P., laborant; KHYAMYALYAYNIN,
L.B., laborant; KLOCHKOV, B.N., laborant; RAGINA, G.M., vedushchiy
red.; SAFRONOVA, I.M., tekhn.red.

[Basic processes of the transformation of bitumens in nature and the problems of their classification] Osnovnye puti preobrazovaniia bitumov v prirode i voprosy ikh klassifikatsii.
Leningrad, Gos.nauchno-tekhn.izd-vo neft.i gorno-toplivnoi
liv-ry Leningr.otd-nie, 1961. 314 p. (Leningrad. Vsesoiuznyi
nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy,
no.185). (MIRA 15:4)

(Bitumen-Geology)

GULYAYEVA, L.I.; VINOGRADOVA, A.P.; KHYANINA, A.P.; KARPOVSKAYA, R.R.

Determination of the trace amounts of sulfur in the products of petrochemical synthesis. Weftekhimia 3 no.2:296-302 Mr-Ap (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

(Sugar--Analysis) (Petroleum chemicals)

GULYATEVA, L.I.; KEYANINA, A.P.

Spectrophotometria determination of the content of elemels in aqueous solutions. Zav.lab. 30 no.4:417-418 *64. (MRA 17:4)

1. Vsesoyuznyy nauchho-issledovatel'skiy institut neftekhimicheskikh protsessov.

GULYAYEVA, L.I.; KHYANINA, A.P.

Using the pyroanalytic method to determine the fluorine in aluminoplatinum catalysts and catalysis products. Nefteper. i neftekhim. no.7:29-32 164. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

GULYAYEVA, L.J., KHYANINA, A.P.

Determination of the methanol content of formulin. Zav. lab. 30 no.8:944 '64. (MIRA 18:3)

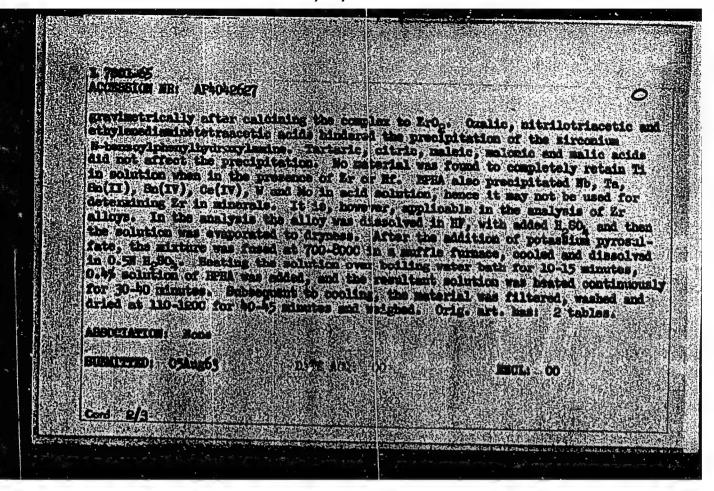
1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh proteessov.

KHYAZEVA, A. A., GERSHUNI, G.V. AND FEDOROV, L. N.

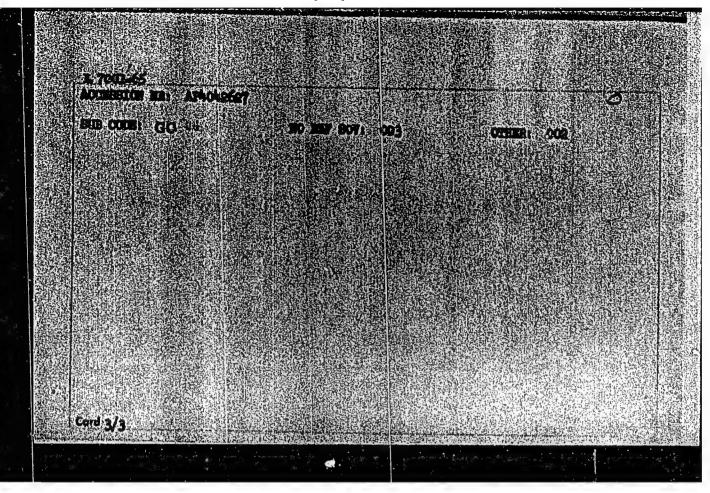
"About the Modification of Auditory Sensitivity in Action of Sound During Hypnotic Sleep," Fiz. Zhur., 32m No.5, pp 557-566, 1946

Translation 297, Lulich

Linear Series (Series (1987) (



"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7



KHYBUTIYA-JABUNIYA, O. A. --

"The Bacteria of the Genus Proteus, Their Significance in Food Poisoning, and a Comparative Biochemical and Serological Study of the Strains Isolated From Human and Rodent Faces."

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

TORPAN, B.K., kand. tekhn. nauk, dots.; KHYDREYARV, Kh.Kh. [Hodrejärv, H.], . inzh.

Investigating the corrosion of steel in the presence of shale ash at high temperatures. Izv. vys. ucheb. zav.; energ. 2 no.7: 105-110 J1 159. (MIRA 13:1)

1.Tallinskiy politekhnicheskiy institut. (Steel--Corrosion) (Oll shales)

MAMEDOV, Shamkhal; LERNER, G.Ya.; KHYDROV, D.N.

Glycol ethers and their derivatives. Part 65: Synthesis of alkoxymethyl ethers of trichloromethylphenylcarbinol. Zhur.ob.khim. 34 no.1:53-58 Ja 64. (MIRA 17:3)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

ACC NR. AP6028888

SOURCE CODE: UR/0366/66/002/008/1377/1382

AUTHOR: Mamedov, Shamkhal; Shamilov, Kh. Kh.; Khydrov, D. N.

ORG: Institute of Petrochemical Processes, Academy of Sciences, AzerbSSR, Baku (Institut neftekhimicheskikh protsessov Akademii nauk AzerbSSR)

TITLE: Glycol ethers and their derivatives. CVIII. Synthesis of alkoxymethyl ethers of 1-hexyloxy-3-(diethylamino)-2-propanol

SOURCE: Zhurnal organicheskoy khimii, v. 2, no. 8, 1966, 1377-1382

TOPIC TAGS: pesticide, hexyloxydiethylaminopropanol alkoxymethyl ether, ether, chemical synthesis

ABSTRACT: In a search for new pesticides, a series of previously unreported methoxy-, propoxy-, isopropoxy-, isobutoxy-, and isoamyloxy-methyl ethers of 1-hexyloxy-3-(diethylamino)-2-propanol (I) and methoxy-, propoxy-, butoxy-, and amyloxymethyl ethers of 1-vinylmethoxy-3-(diethylamino)-2-propanol (II) were synthesized by a variant of the Williamson ether synthesis, in which α-chloromethyl alkyl ethers are treated with I and II in the presence of NaOH. Composition and properties of the new ethers (III—XII) are given in the table. At 40-50°C in the presence of Na methoxide,

Card 1/8

UDC: 547.27

ACC NR: AP6028888

I reacts with acrylonitrile to form XIII. Compound XIV was obtained by heating (at 75—80°C) a mixture of I with hexamethylene-amine, benzene, and paraformaldehyde. I reacts in benzene solution with thionyl chloride to form XV. Compounds XVI—XX were obtained by the reaction of XV with Na alkoxides at 60—70°C. At 90—100°C XV reacts with hexamethyleneamine to form XXI. Compound XXII was obtained by the reaction of XV with ethylmagnesium bromide. Reaction of XV with potassium acetate yielded XXIII; with potassium isomylxanthogenate XV reacts to form XXIV; and with ethylene glycol XV reacts to form XXV. XXVI is formed in the latter reaction as a by-product. XXVI reacts with a-chloro-methyl ether to form XXVII. Composition and properties of the new ethers are given in the table:

Card 2/8

Con		Yield (in %)	bp (p in mm)	d4 20	n _D 20	1	HR _D		Found %		
no.				",	_D	Found	Calc'd	c .	н	N	
•	1	90	126—130° (1)	0.8809	1,4412	69.28	69.49	67.46, 67.31	12.82, 12.95	6.46, 5.88	Ť
	11	90	104-105 (5)	0.9155	1.4500	54.88	55.07	64.23, 64.27	11.57,	7.66, 7.64	
; 1	11	54	124-126 (1)	0.8934	1.4340	80.17	60.51	65.71, 65.93	12.40, 12.17	4.90.	ľ
1	V	55	141-143 (1)	0.8838	1.4368	89.79	89.81	- O3.83		5.44 4.67,	
	V	40	135—137 (1)	0.8820	1.4360	89.72	89.81	66.88. 67.36	12.57.	4.52 4.55,	:
,	71	44	150-152 (1)	0.8800	1.4362	94.23	94.45		12.52	4.59	
V	li	48	166-168(1)	0.8514	1.4390	98.77	99.10	69.20, 68.89	12.32,	4.88	
VI	11	40	161-163 (1)	0.6790	1.4376	'98,77	99.10	-	12.81	4.55 4.70	
· 1	X	52	100-102 (2)	0,9200	1.4396	66.11	66.09	62.21, 62.67	11.19.	4.65 6.35,	
	X	50	123—125 (2)	0.9076	1.4400	75.22	75.38	-	11.27	6.53	
. 2	I	52	128-130 (0.5)	0.9050	1.4405	78.72	79.04	65.96,	11.66,	5.81 5.47,	
X		54	149—151 (2)	0.8993	1.4408	84.67	84.25	66.31	11.82	5.28 5.27,	
3/	3									4.99	

Com-	Yield	ър	. 20		MR _D		Found %		
ipound ino.	(in %)	(p in mm)	d ₄ 20	n _D ²⁰	Found	Calc'd	С	н	N
XIII	60	162-163 (0.5)	0.8927	1.4438	80.30	80.62	68.00, 67.90	11.67, 11.57	10.10,
XIV	54	172-174 (1)	0.9036	1.4603	103.51	104.01	70.62, 70.55	12.32,	8.48, 8.17
X 4 •	87	120-122 (1)	0.9172	1.4450	72.41	72.62	62.31, 62.45	11.28, 11.16	5.32, . 5.73
XVI	74	118-120 (1)	0.8595	1.4336	74.17	74.41	68.96 , 68.76	13.05.	5.83, 5.78
xvii	. 61	126—127 (1)	0.8571	1.4341	78.69	79.06	'	_	5.79, 5.81
NYM	75	135—136 (*)	0.8532	1.4350	83.33	83.71	70.60, 70.04	12.90,	5.35, 5.49
XIX	70	146-147 (1)	0.8517	1.4366	88.22	68.36	. –	-	4.77,
XX	77	154—156 (1)	0.8502	1.4380	92.93	\$3.00	72.19, 72.09	13.42, 13.44	4.72
XXI	50	170-172 (1)	0.8835	1,4623	97.15	97.60	73.35, 73.17	13.16, 12.88	8.88 9.25
XXII	46	116119 (2)	0.8250	1.4354	76,90	77.30	74.06,	13.67,	5.67, 5.59

Card . 4/8

ACC ARPROMEDS FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7"

Com-	Yield	bp	di 20	20'	1	r _d	1	Found Z	
no.	(in %)	(pin mm)	طني" ۲	n _D ²⁰	Feur.d.	Calc'd	. с	н	N
XXIII	54	144146 (1)	0.9088	1.4366	78.63	78.85	66.24. 66.22	11.18,	5.28, 5.35
XXIV **	54	208-210(1)	0.9585	1.4912	113.95	114.35	60.76. 60.46	10.59, 10.70	3.66, 3.49
XXV	43	161—163 (2)	0.9200	1.4490	80.17	80.55	65.69. 65.49	11.61. 12.09	5.08, 5.07
XXVI	25	239-240 (2)	0.8997	1.4510	146.77	146.05	69.23, 68.59	12.33, 12.79	7.93, 8.14
nvxx	57	160—162 (1)	0.9262	1.4398	91.34	91.57	64.24. 63.98	11.75, 12.02	4.66, 4.28
		•							

** Found 7: S 16.59, 16.65. Calculated 7: S 16.97.

	Com-		Ca	lculate	d Z	•	
4	pound no.	Formula	' с	П	N		
	.1	C13H13NO2	67.53	12.55	6.06		
•	' n	C ₁₀ H ₂₁ NO ₃	64.17	11.23	7.42	•	
	ın	C18H33NO3	65.45	12.00	5.09	•	
	18	C ₁₇ H ₃₇ NO ₃	-	·-	4.62		
	v	C17H37NO3	67.33	12.21	4,62		
(a) 1	VI	C18H26NO3	- .	-	4.41		
	\ VII	C10 H41 NO3	68.88	12.39	4.23	•	
	vin	C18H41NO2	_	-	4.23	•	
•	1X	C12H25NO3	62.34	10.82	6.06		
	X	C14H23NO3	-	· –	5:67		
	· XI	C ₁₅ H ₃₁ NO ₃	65.93	. 11.36	5.12		
	XII	C ₁₈ H ₂₃ NO ₃		-	4.89	•	

APPROVED FOR			00 _{Ca}	CIA-RE	2P86-00513R00072251000	7
	pound no.	Formula	,C	п	N	
•	XIII	C181131N2O2	67.60	11,27	9.85	
	. XIV	C201140N2O2	70.18	12.28	8.18	
	XV•	C131124CINO	62.78	10.86	5,63	
	, xvi	C14H31NO	68.57	12.66	5.71	
·	, XAII	C13H33NO2	-	-	5.40	
	xviii	C16H31NO2	70.33	12.83	5.12	
	XIX	C17M37NO2	-	-	4.88	
417	XX	C18H39NO2	71.76	12,95	4.65	
	: XXI	C19 H 40 N2 O2 .	73.08	12.82	8.97	
	XXII	C ₁₈ H ₃₀ NO	74.07	13.58	5.90	
	XXIII	C18H21NO3	65.93	11.35	5.12	

		Com- pound	Formula	Ca	lculate	d X	1 1	
		no.	roimula	C	н	N		
		XXIV	C19H39NO2S2	60.48	10.34	3.71		
		XXV	C15 H 33 NO 3 .	65.48	12.00	5.09	,	
		IVXX	C28 H 60 N2 O4	68.85	12.30	7.73		
		HVXX	C12H37NO	63.95	11,60	4.39		
UB CODE:	07,06/SUBM DATE:	21Jan65/	ORIG REF:	012/				
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/TIOR: Demiyanov V. E. (Laning)	ad)) Kivayakov, (i. Yu. (Gillingred)) 3
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	pekhanika, v. 20, no. 1, 1965, 158-161
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